MOBILE IN A CONTAINERS WORLD

A Strategy for Modern App Dev with a Mobile Twist

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AGENDA
WHY - Modern App Dev
WHO - Personas & Needs
WHAT - Building Blocks
HOW - Technology Stack

Digital Transformation

“Why”

redhat.

Siloed Data | Behind Firewall | Waterfall Development

To Systems of Engagement

Integrated Data | In the Wild | Agile Development

Digital Transformation

Increased Efficiency | Reduced Cost | Rapid Turnaround | Cloud Native

Mobile: a Catalyst for Digital Transformation

Digital Transformation: a Catalyst for Modern App Dev

Modern App Dev Personas & Needs

“Who”

redhat.

Business Sponsor

Dashboards | App Portfolio | Analytics | Project Plans

Project Manager

Project Plan | Quality | Metrics | Analytics

Security & Compliance

Identity | Encryption | Auditing | Access Control | Data Management

Front End Developer

UI/UX | SDKs | Debugging | Data Management | Encryption | Metrics

Back End Developer

Data Storage | Integrations | Performance | Monitoring | Logging | CI/CD

Mobile Developer

Identity | Push Notification | Offline | UI/UX | SDKs | Debugging | CI/CD

Citizen Developer

Low/No Code | Form Designer | Process Definition | Workflow Management

System Administrator

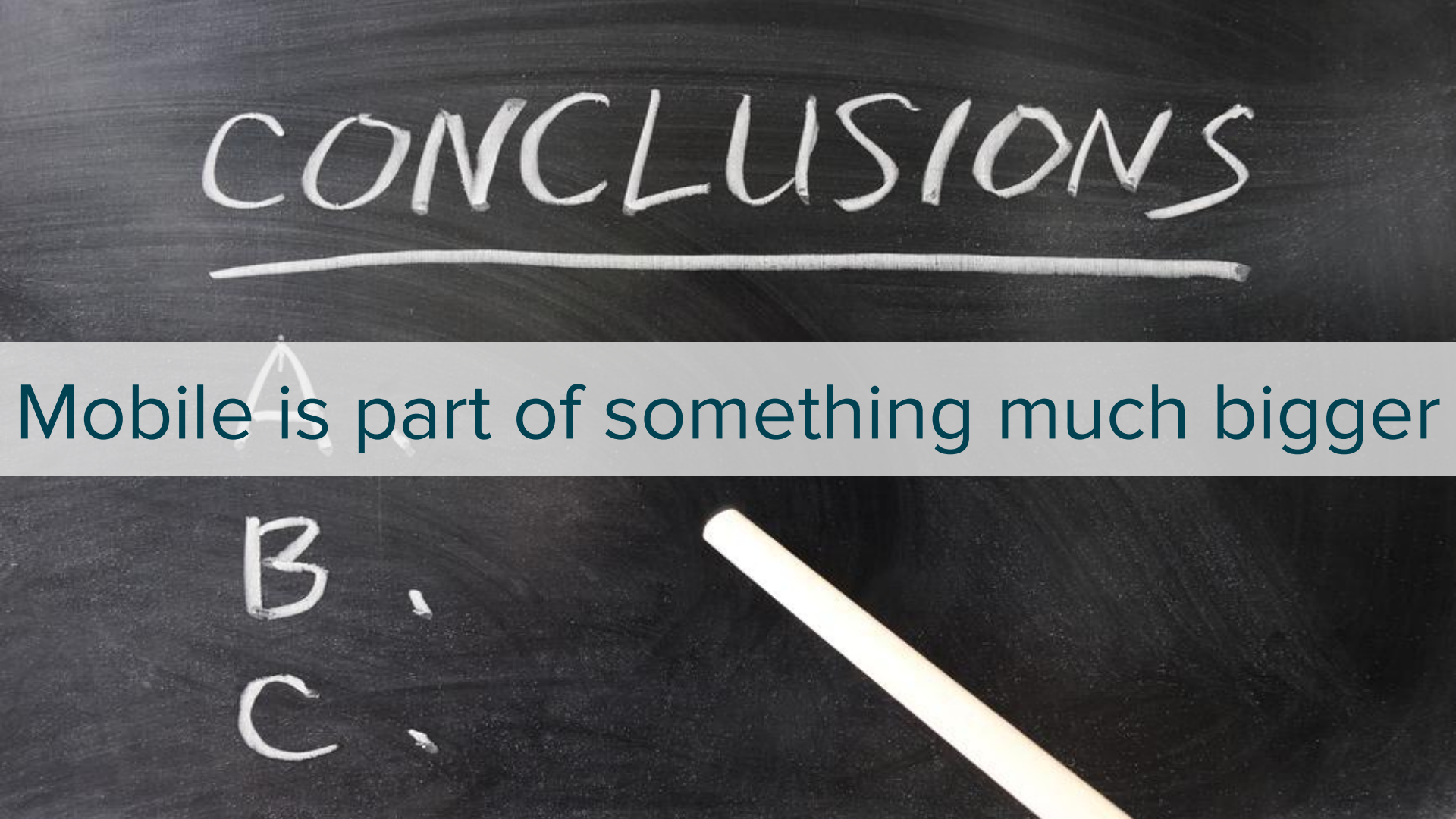
Installations | Upgrades | Monitoring | Metrics | Configuration | Backups

Support Agent

Logging | Remote Debug | System Dump | Metrics

End Users

Feedback Loop | Manage SSO | App Portfolio & Updates | Devices


CONCLUSIONS
Mobile is part of something much bigger
B .
C .

Modern App Dev Building Blocks

“What”

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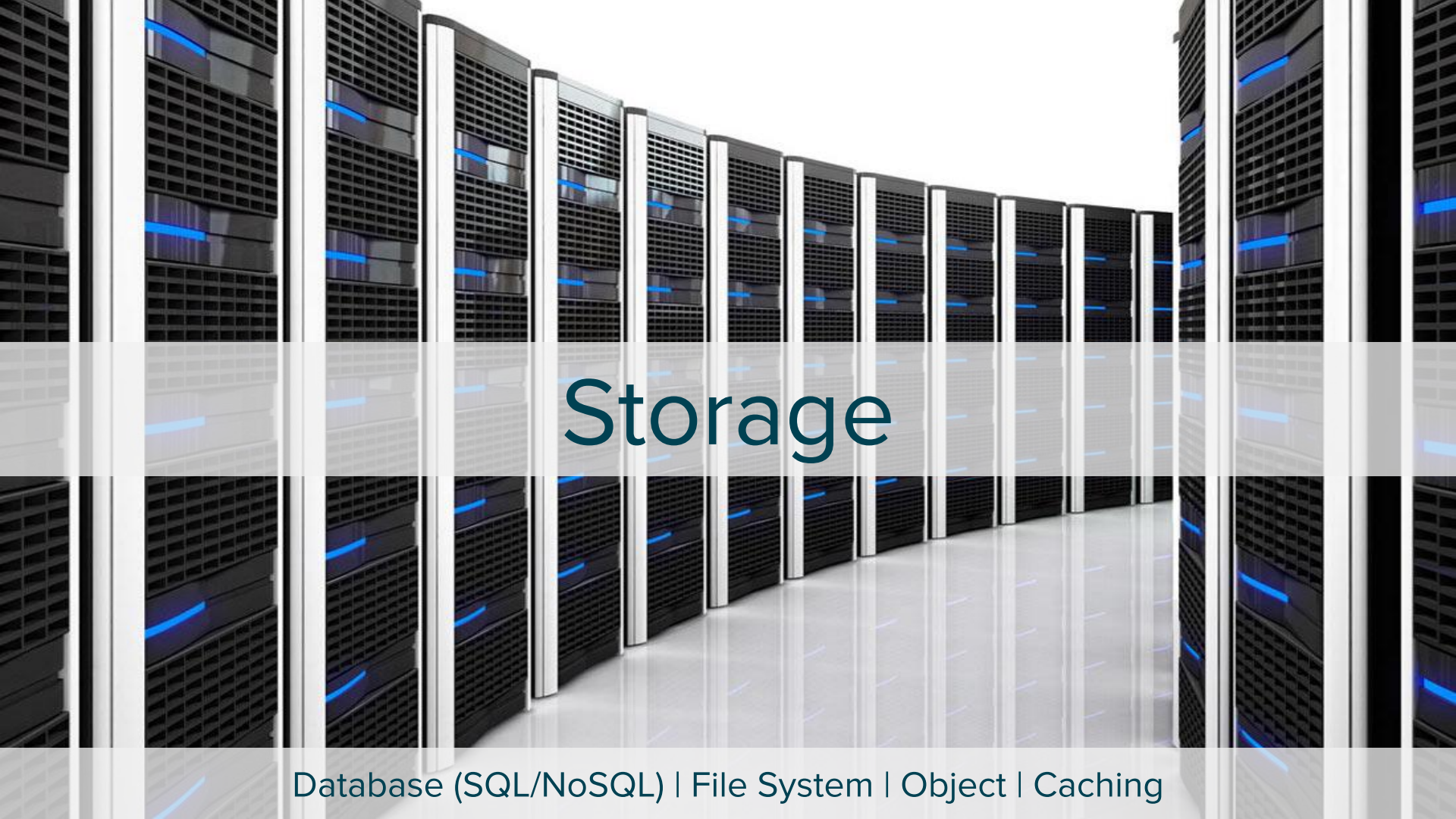
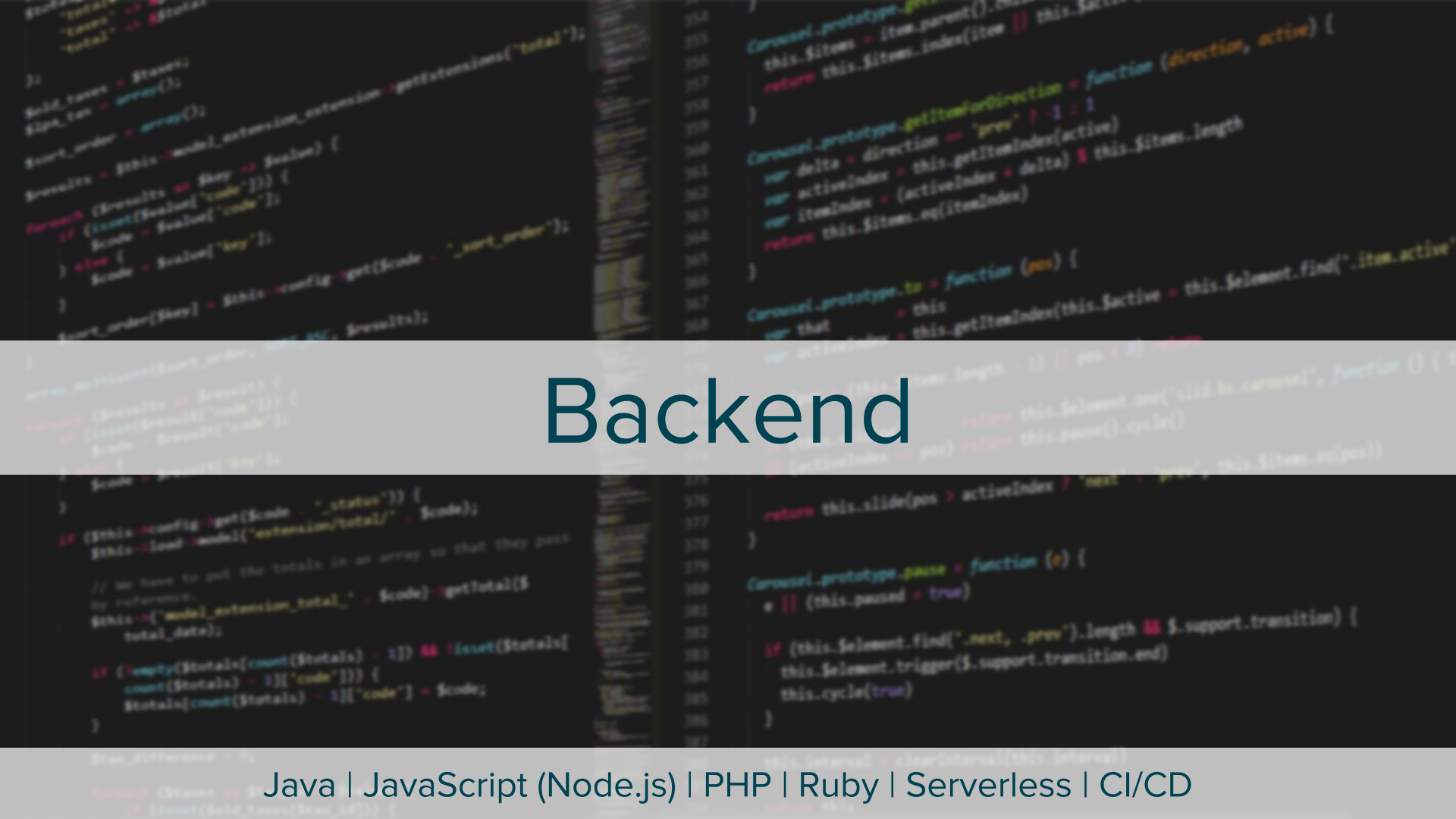
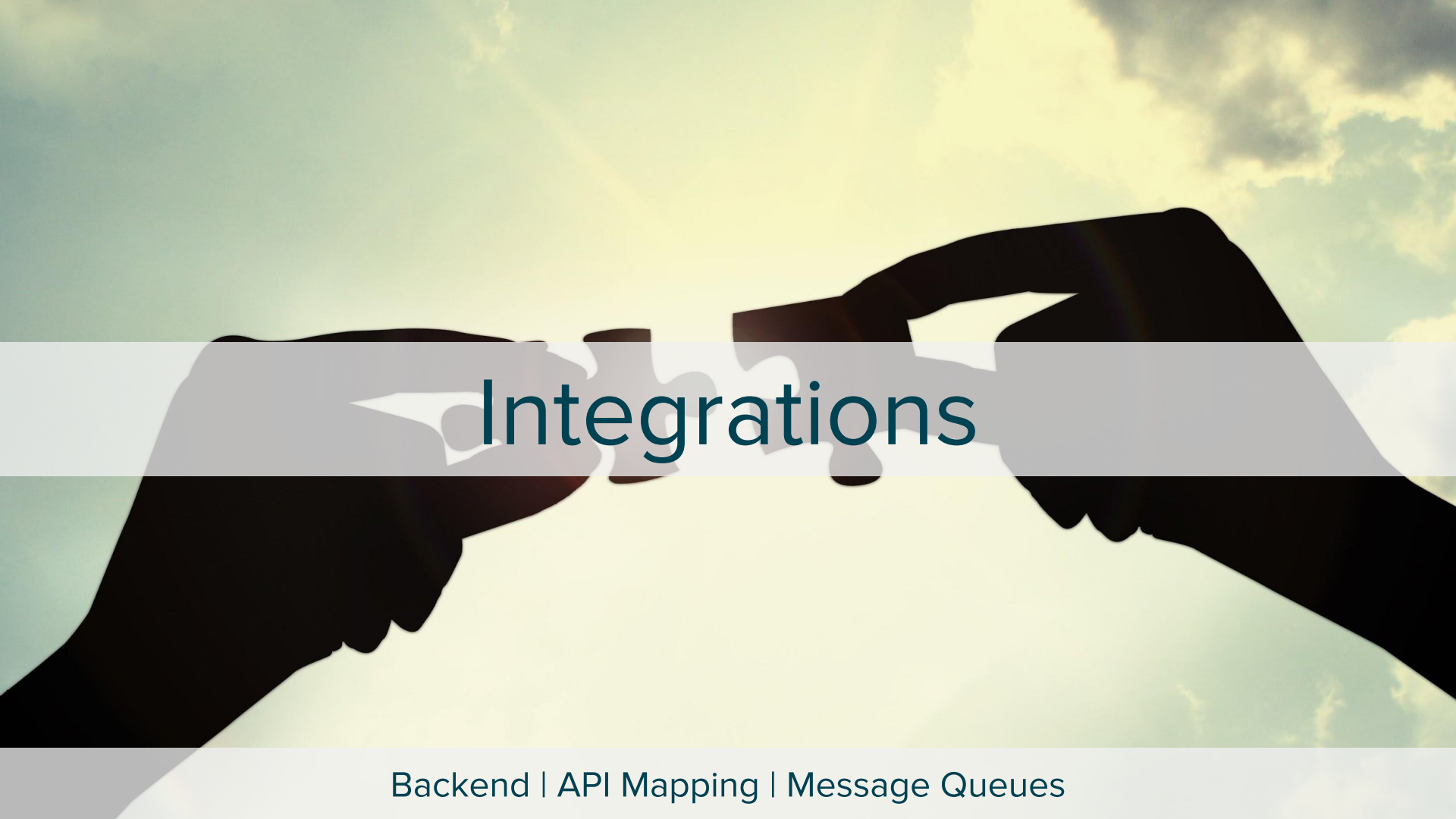

Storage
Database (SQL/NoSQL) | File System | Object | Caching



Backend

Java | JavaScript (Node.js) | PHP | Ruby | Serverless | CI/CD



Integrations

Backend | API Mapping | Message Queues

Security

API Management | User Management | Device Security

Analytics

Installs | Startups | Active Users | Usage Patterns | A/B Testing

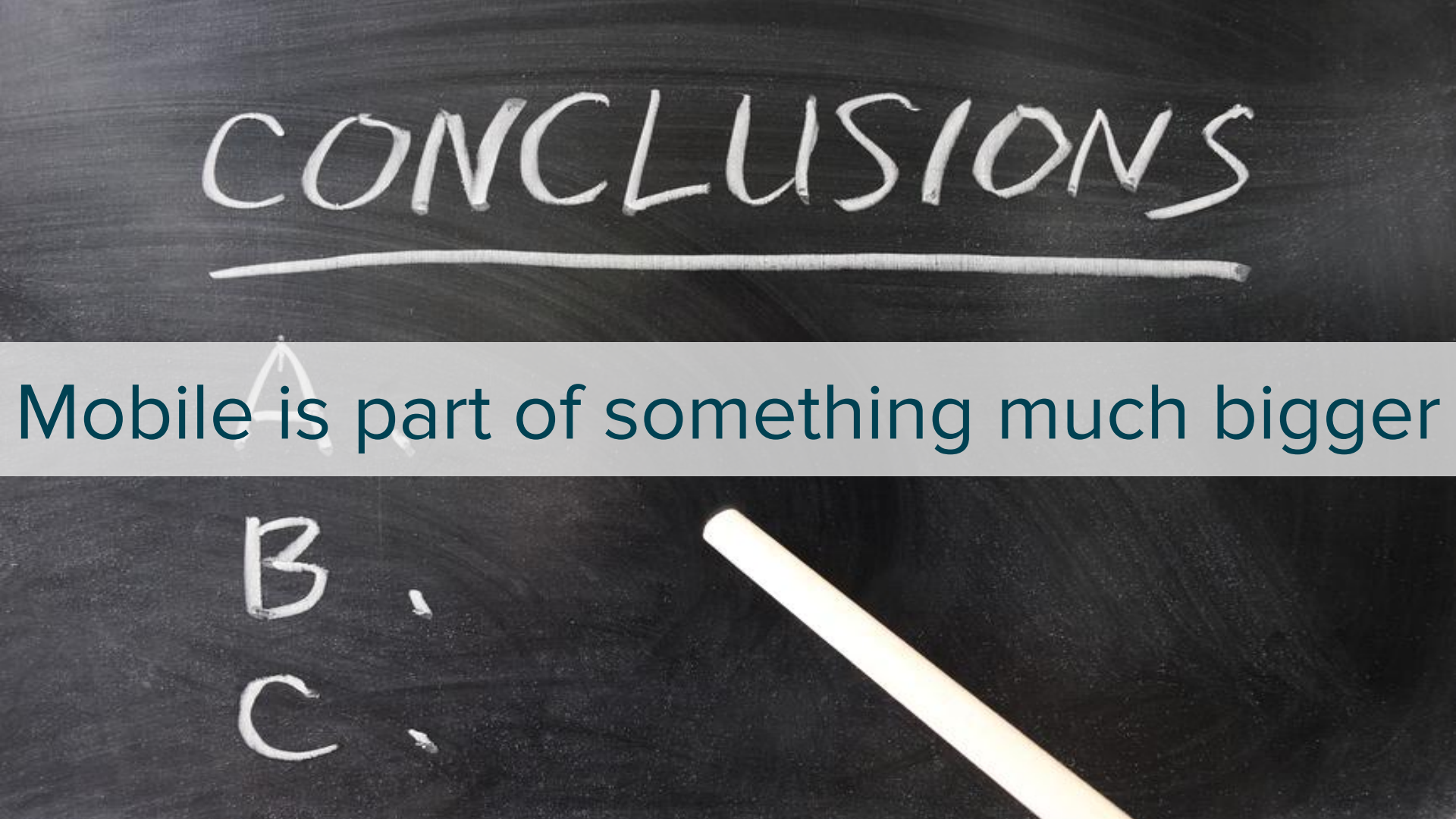
Monitoring

Health | Logs | Metrics | Performance & Uptime

Collateral

Documentation | Videos | Templates | Guides | Blogs

Mobile Client
Push Notifications | Data Sync | App Management | Device Security | Remote Config, Debug, File Access & Logs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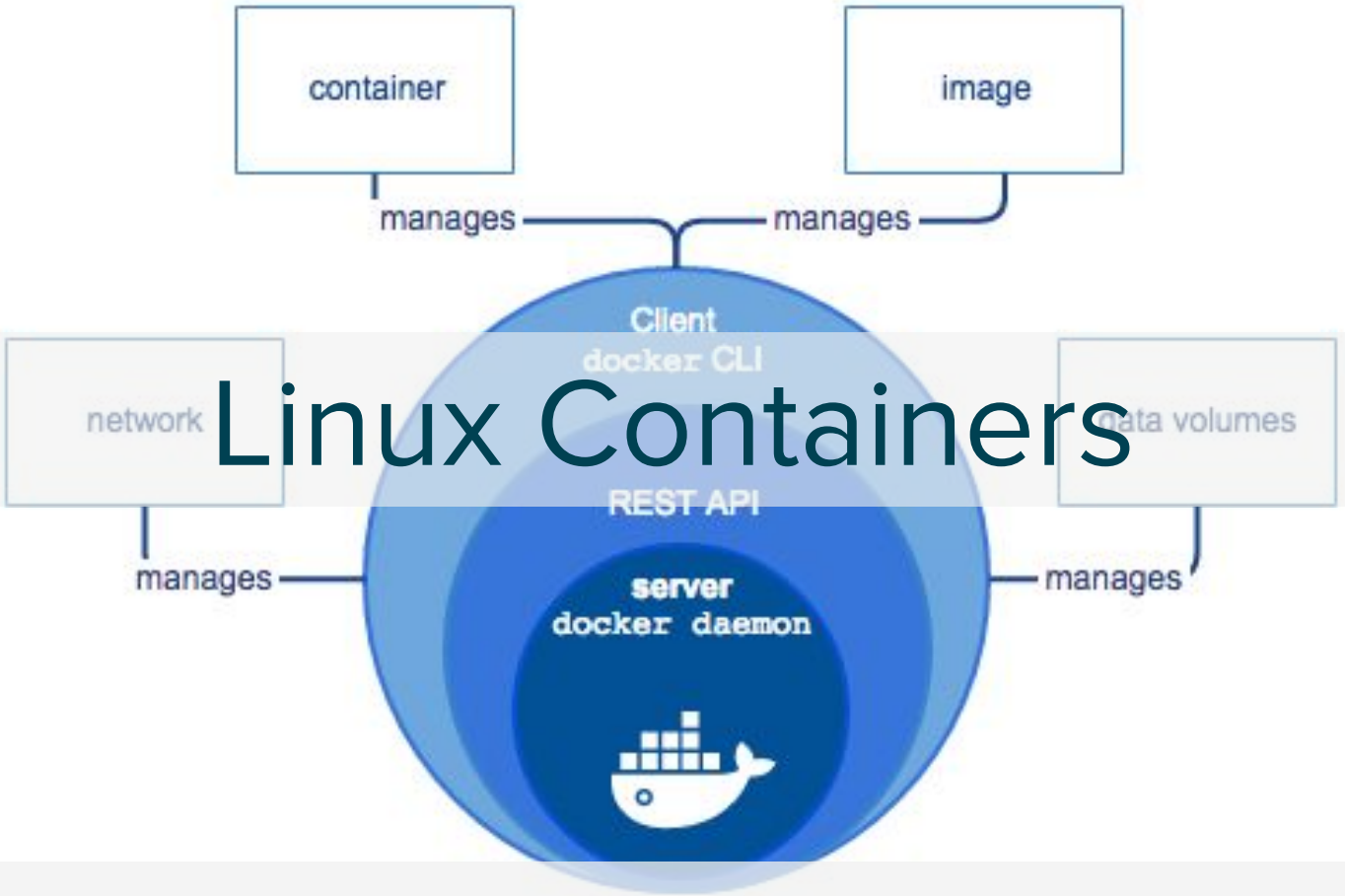
Technology Stack

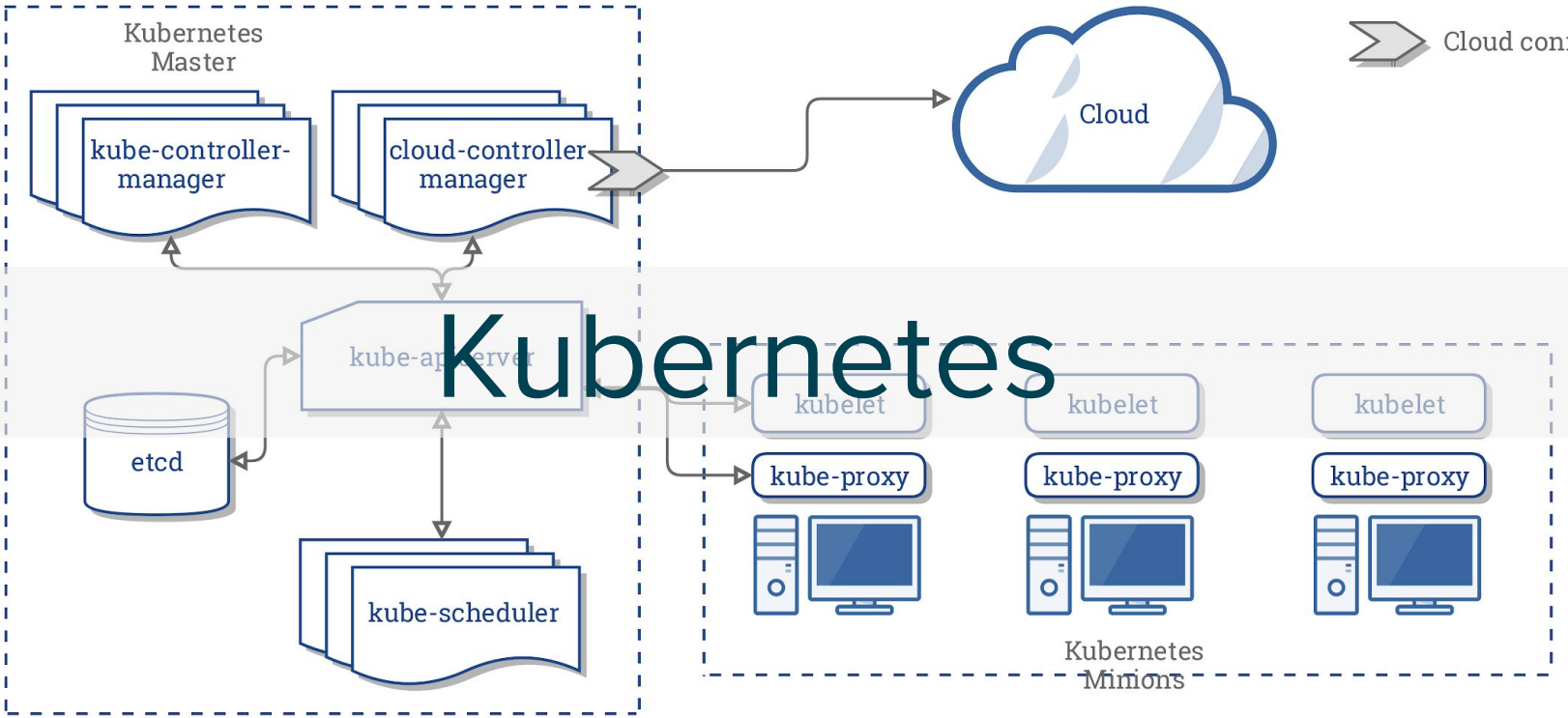
"How"

redhat.



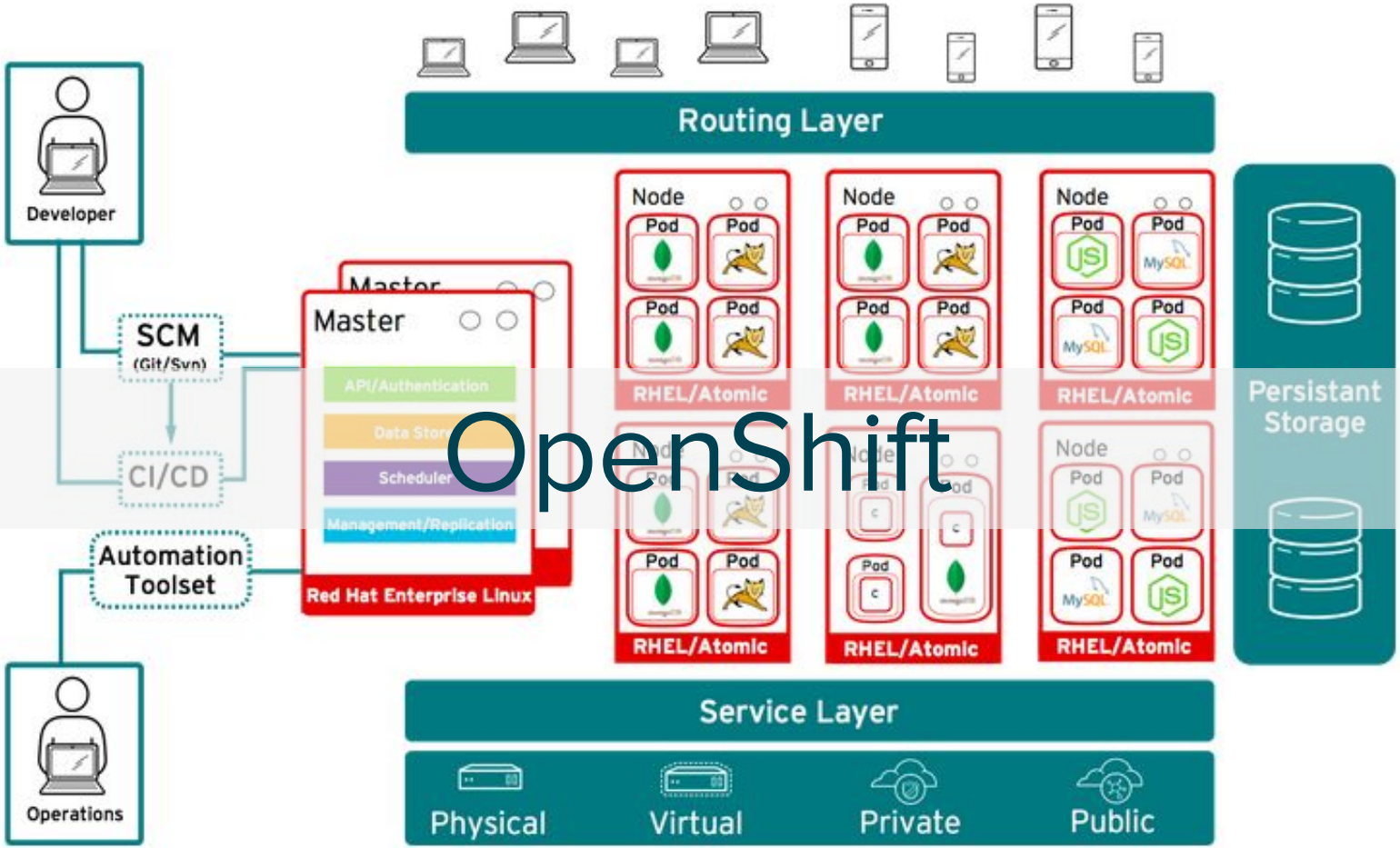
Linux Containers

Containers | Images | Catalogue | Network | Storage



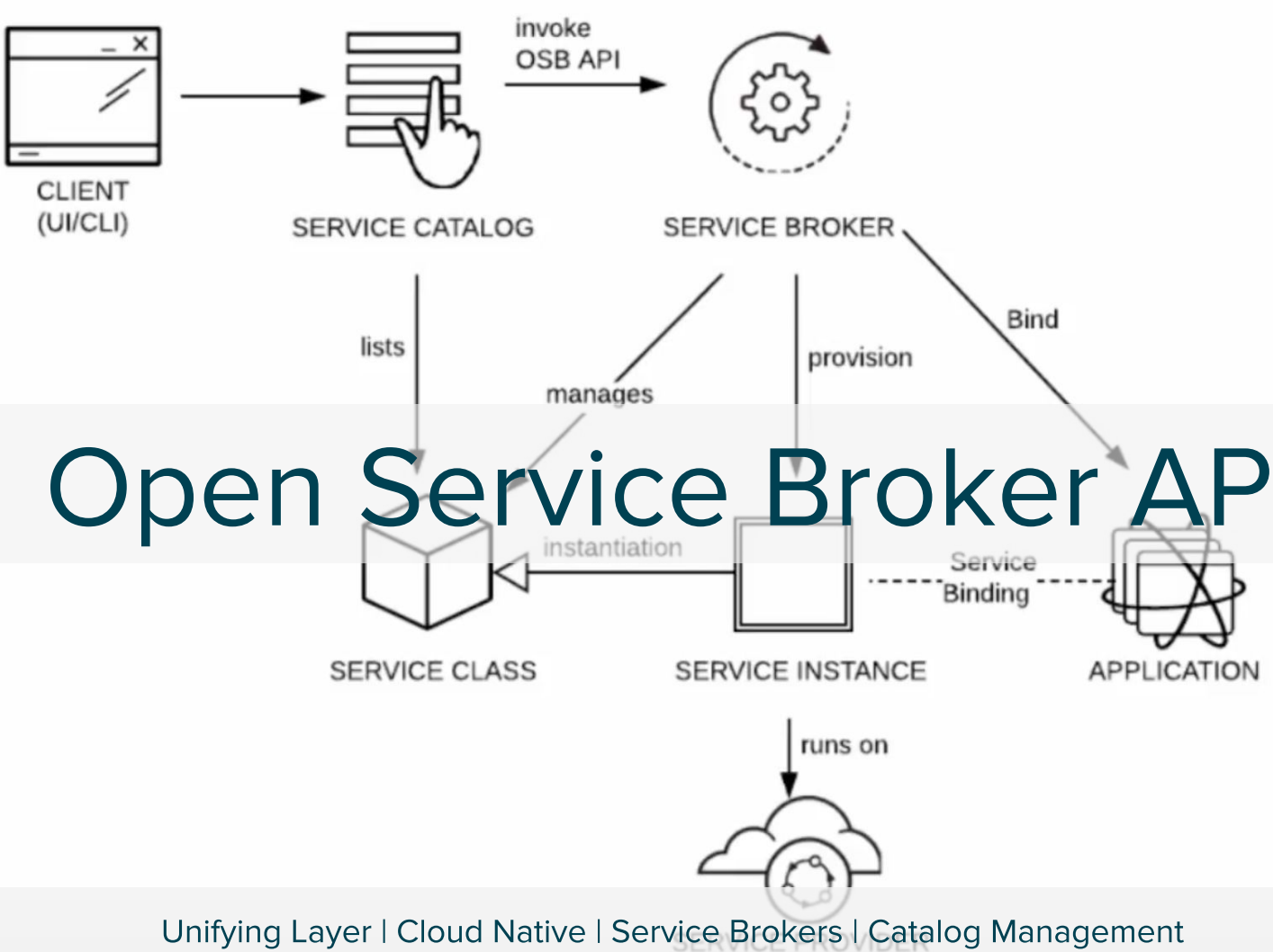
Kubernetes

Container Deployment & Scaling | Quotas & Limits | Namespace Isolation | Software Defined Network

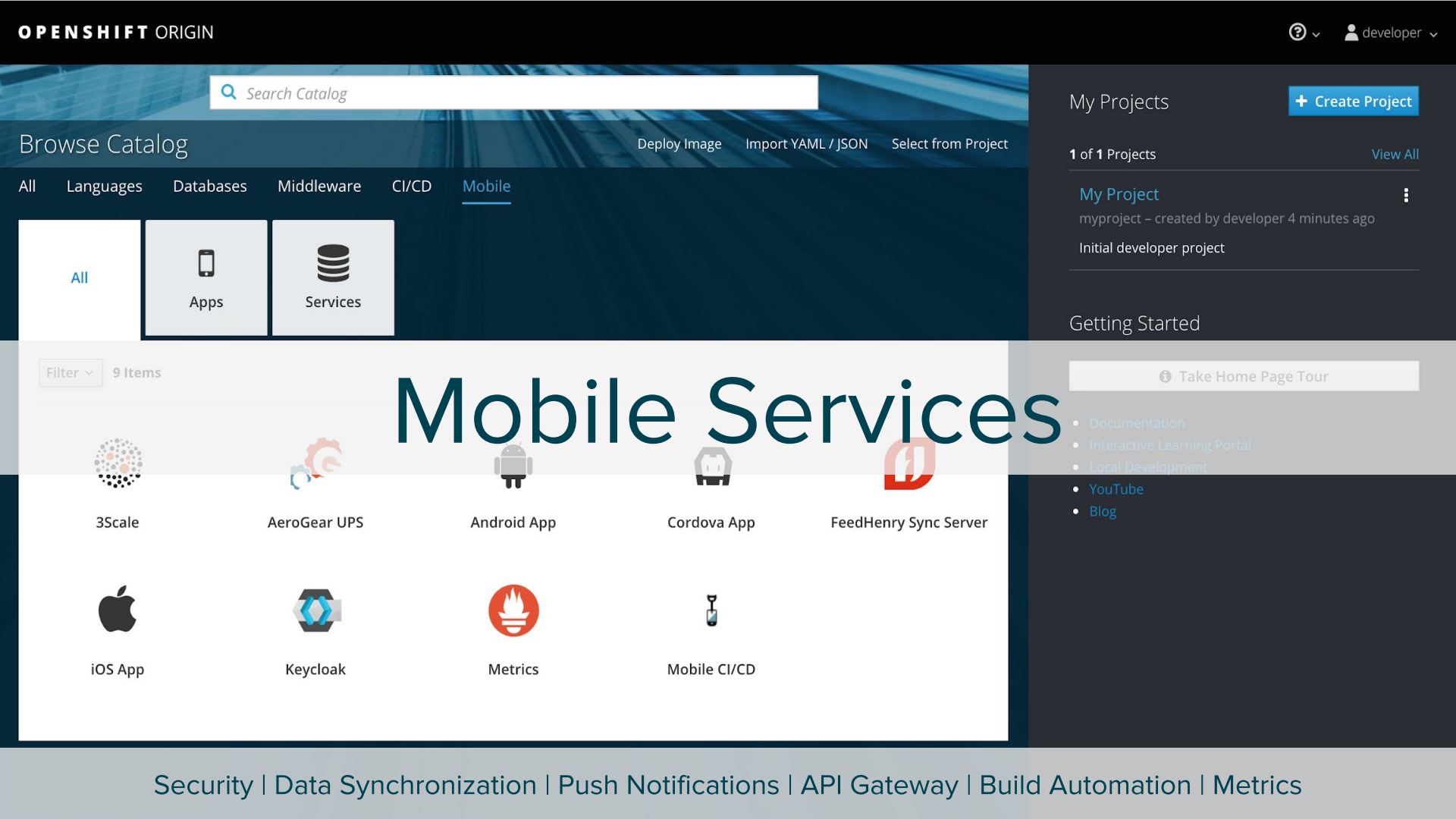


OpenShift

Lifecycle Management | DevOps Tooling | Identity & Access Control | Developer Runtimes



Open Service Broker API

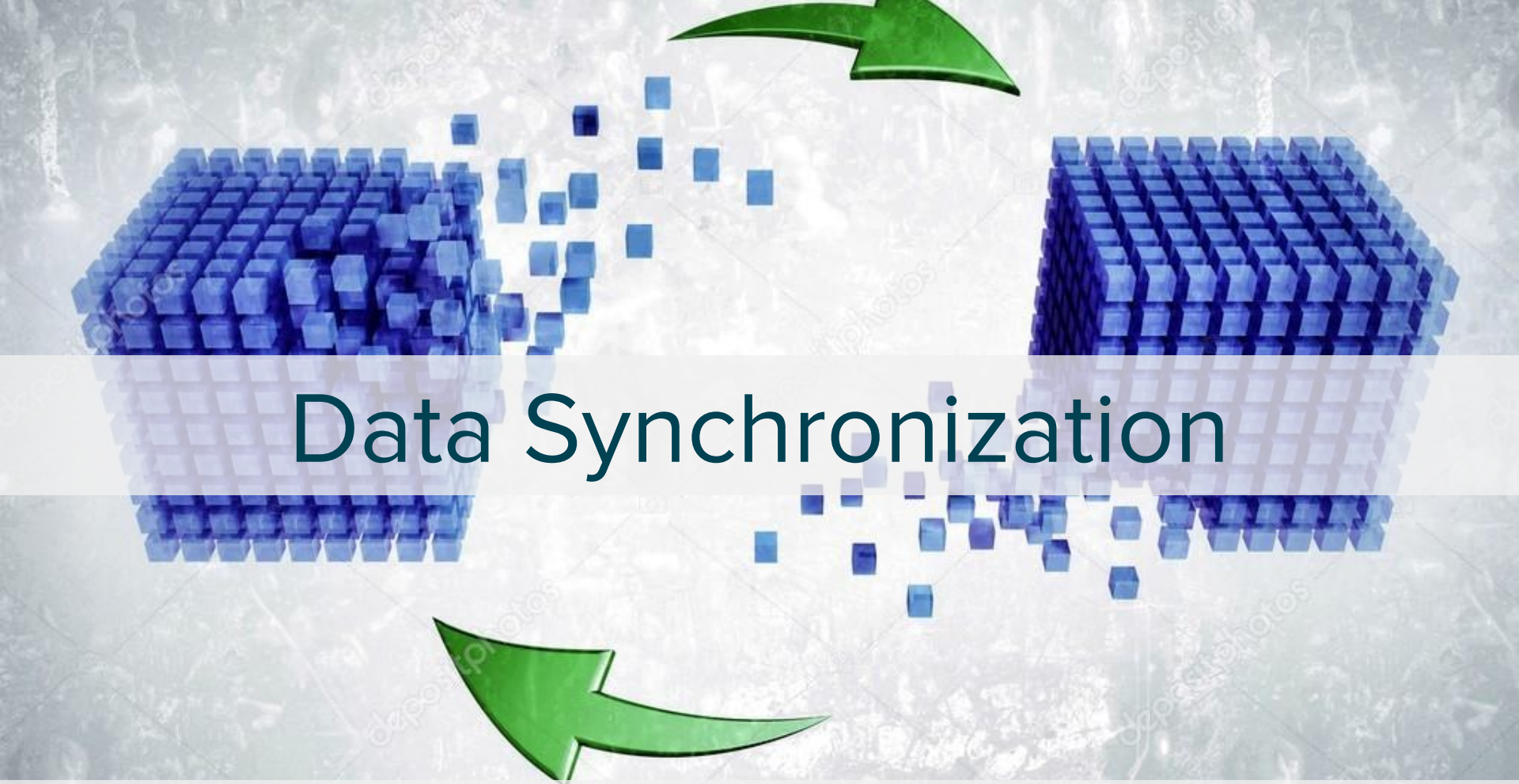


Mobile Services

Security | Data Synchronization | Push Notifications | API Gateway | Build Automation | Metrics

Security & Identity Management

Authorization & Authentication | Multi Factor Identity | Single Sign On | Device Security & Trust

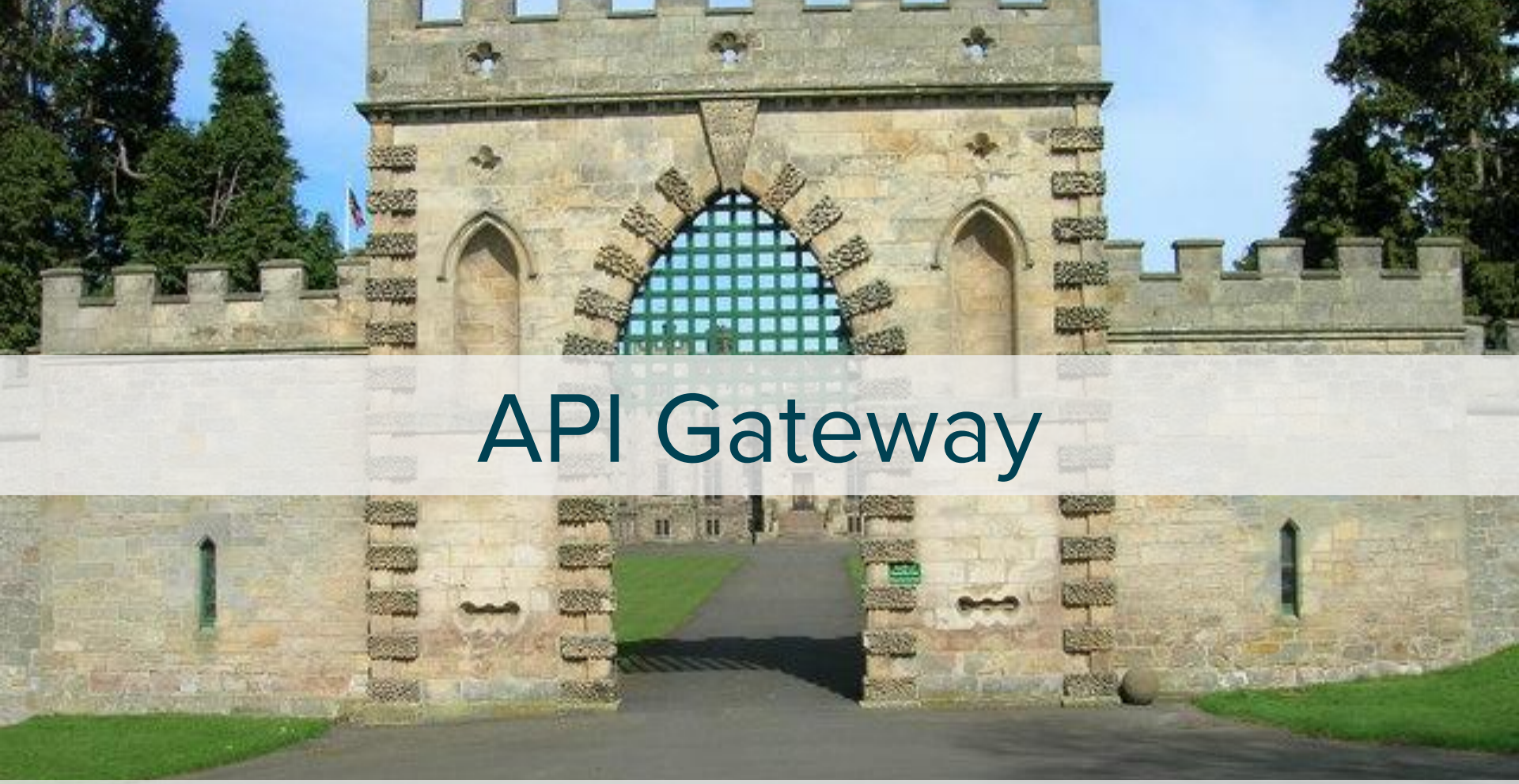


Data Synchronization

Offline First | 3 Way Sync | Collision Detection & Management | Differential Sync

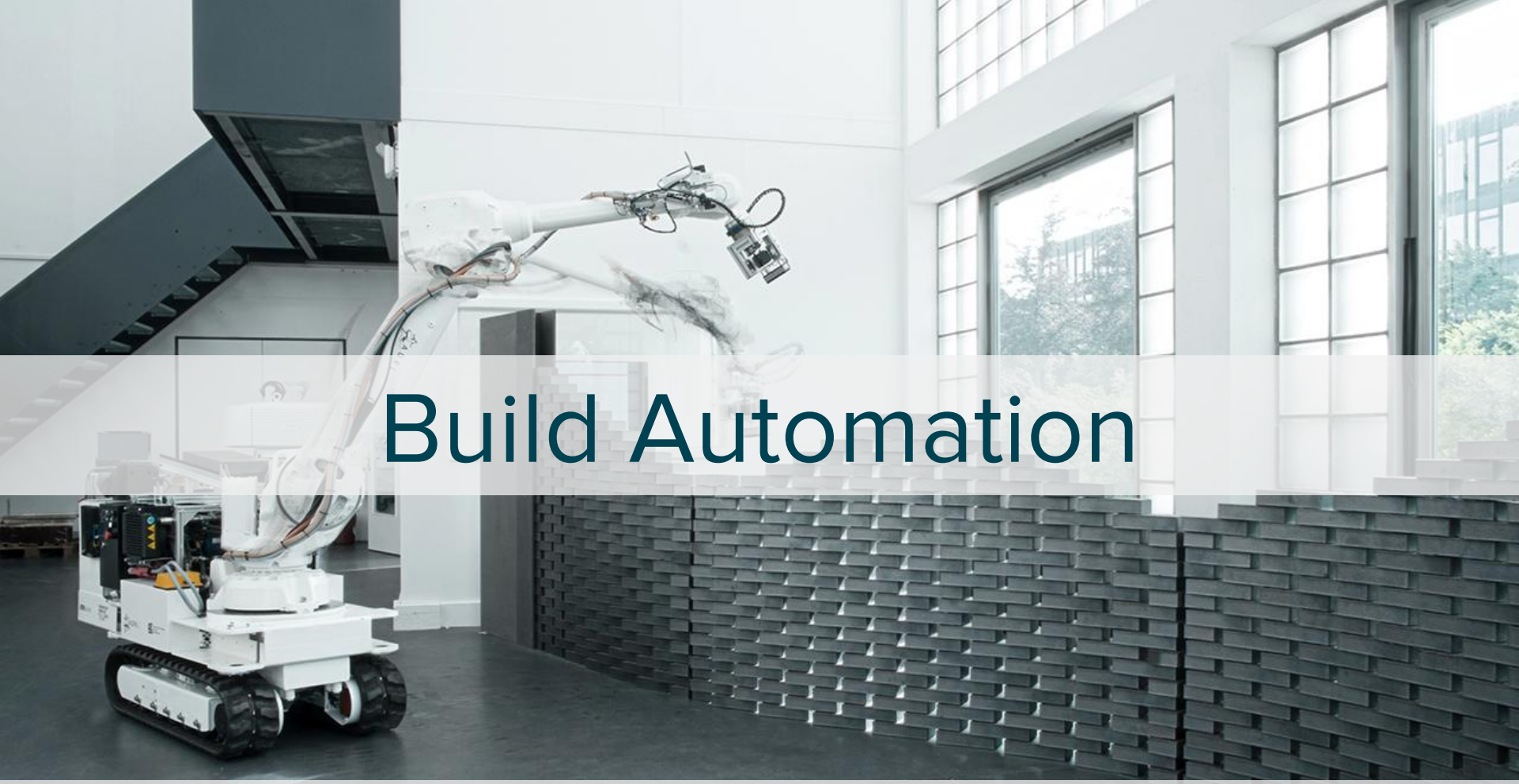
Push Notifications

iOS, Android & Web | Real time Stats | Targeted Messages | Certificate Management



API Gateway

Traffic Management | Rate Limiting | Access Control | Analytics



Build Automation

iOS & Android | Native & Hybrid | Jenkins Pipelines | Containerized Builds

Metrics

Service Usage & Statistics | Device & SDK Versions | Error Reporting | Security Reporting

The Future

Serverless | Remote Debugging | Hot Code Push | Device Test Automation | Dynamic Config | Analytics

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